

### ALPHA MAGNETIC SPECTROMETER (AMS) ACCEPTANCE DATA PACKAGE

for

#### **AMS COLLABORATION HARDWARE**

Acceptance Data Effective through [Date]

Part Name: AMS02- RICH Subsystem/Detector: RHV "RICH HIGH

**VOLTAGE" (RICH)** 

Part Number: RHV Serial Number: ---

**ADP Tracking Number:** 

CIEMAT, Avd. Complutense, 22 - 28040 (Madrid), Telf: 91-346.60.00/01, Fax: 91-346.60.05 (central)

### ALPHA MAGNETIC SPECTROMETER (AMS)

### ACCEPTANCE DATA PACKAGE

**FOR** 

**PART NAME:** 

AMS02- RHV RICH

PART NUMBER:

**RHV** 

**SERIAL NUMBER:** 

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### ALPHA MAGNETIC SPECTROMETER (AMS) MAJOR COMPONENT PRE-INTEGRATION CHECKLIST

AMS0	2 – RHV RICH		RHV							
	ITEM NAME	CI NO.	PART NUMBER	SERIAL NUMBER						
NASA	llowing checklist must be completed prior provided Payload Integration Hardware. ved by all parties.									
	INTEGRATION REVIEW ITEMS  All integration plans and procedures have been completed and approved.									
	All hardware, including interface fasteners, is available for integration.									
	Mechanical and electrical interfaces have been verified against the interface control documentation.									
	All applicable functional, unit-level, subsystem, and qualification testing has been conducted successfully.									
	Integration facilities, including clean room, ground support equipment, handling fixtures, cranes, and electrical test equipment are ready and available.									
	Support personnel have been adequately	y trained and will b	e available at the integration	n facility.						
	Handling and safety requirements have b	peen documented.								
	All known system discrepancies have bee	en identified and di	sposed in accordance with	an agreed-upon						
	All previous design review success criteri agreed-upon plan.	a and key issues h	nave been satisfied in accor	dance with an						
	The quality control organization is ready	to support the inte	gration effort.							
Payloa	ad Integration and Test Manager		Date							
Contra	ctor/Supplier Quality Assurance									
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### ALPHA MAGNETIC SPECTROMETER (AMS) HARDWARE ACCEPTANCE DATA PACKAGE INDEX PAGE

AMS	802 – RH	IV RICH			RHV						
		ITEM N	AME	CI NO.	PART NUMBER	SERIAL NUMBER					
			DOCUMENT	S INCLUDED IN THI	S DATA PACKAGE						
Υ	N	N/A	SECTION		INDEX						
X			I	HISTORICAL LOG	6/NOTES/COMMENTS						
			II	WAIVERS/DEVIA	TIONS						
			III	UNEXPLAINED A	NOMALIES REPORTED						
			IV	UNPLANNED/DEF	FERRED WORK REPORTE	D					
			V	PREPLANNED/AS	SSIGNED WORK REPORTE	ED .					
Χ			VI	IDENTIFICATION	AS-DESIGNED CONFIGUR	RATION					
			VII	OPERATING TIMI	E/CYCLE REPORTED						
			VIII	AGE SENSITIVE/	TIME ACTION ITEMS REPO	ORTED					
			IX	NON-STANDARD CALIBRATION DATA REPORTED							
			Х	REPAIR LIMITATIONS DATA REPORTED							
			XI	PRESSURE VESS	SEL DATA RECEIVED						
			XII	NONFLIGHT HAR	DWARE/TEMPORARY INS	TALLATIONS					
			XVI	CERTIFICATIONS	RECEIVED						
			XVII	MSDS RECEIVED	ı						
			ACCEPT	ANCE DATA PACKA	GE APPROVAL						
					n successfully completed or a provided Payload Integration						
Payl	oad Inte	gration and	l Test Manager		Date						
Exce 1. 2. 3.	eptions\F	Resolution I	Plan (No signature re	equired if there are no	exceptions)						
I agr	ee with	the list of ex	xceptions and agree	to implement the reso	olution plan as described abo	ove.					
Expe	eriment I	ntegration	and Test Manager		 Date						

## ALPHA MAGNETIC SPECTROMETER (AMS) HARDWARE ACCEPTANCE DATA PACKAGE HISTORICAL LOG / NOTES / COMMENTS

AMS02 – RHV RICH	RHV	
Item Name	Part Number	Serial Number
MECHANICAL DOCUMENT		
Incoming RHV		
Material LIST RHV		
Historical Record Log Sheet XHV (QM) Qualification test		
Historical Record Log Sheet RHV MECHANICAL ASSEM	MBLY	
Historical Record Log Sheet RHV COVERS ASSEMBLY	, -	
Historical Record Log Sheet RHV THERMOSTAT ASSE	MBLY	
Historical Record Log Sheet RHV SILVER TEFLON ASS	EMBLY	
Historical Record Log Sheet RHV (FM) Acceptance test		
Table fasteners RHV		
RHV Screw Torque Record Sheet		
THERMAL DOCUMENT		
AMS02-SP-CGS-002, "AMS-02 EHV and RHV Bricks The	ermal Test Specification"	
AMS02-RP-CGS-008, "AMS-02 EHV AND RHV BRICKS	THERMAL ANALYSIS REPOR	<u>RT"</u>
RHV Environmental Test Specifications		
EHV-RHV TVT accepatance test		

### ALPHA MAGNETIC SPECTROMETER (AMS) HARDWARE ACCEPTANCE DATA PACKAGE

ELECTRONIC DOCUMENTS
RHV DTS Layouts
RHV Heater and Thermostat Layout
RHV 01 datasheet (CAEN) (QM)
RHV 02 datasheet (CAEN)
RHV_03 datasheet (CAEN)
RHV_04 datasheet (CAEN)
RHV_05 datasheet (CAEN)
RHV 06 datasheet (CAEN)
RHV_07 datasheet (CAEN)
RHV_Datasheet_CAEN
PHYSICAL DOCUMENT

### ALPHA MAGNETIC SPECTROMETER (AMS) HARDWARE ACCEPTANCE DATA PACKAGE WAIVER DEVIATION / LISTING

	AMS02 – RHV RICH	RH	<i>/</i>				
	Item Name	Part Number Serial Number					
Waiver / Deviation		Affected					
Number	Part Name		Part Number	Serial Number			

### ALPHA MAGNETIC SPECTROMETER (AMS) HARDWARE ACCEPTANCE DATA PACKAGE UNEXPLAINED ANOMOLIES RECORDS

AMS02 -	RHV RICH	RHV			
Item	Name	Part Number	Serial Number		
Nonconformance		Affected			
Record Number	Part Name	Part Num	nber Serial Number		

### ALPHA MAGNETIC SPECTROMETER (AMS) HARDWARE ACCEPTANCE DATA PACKAGE UNPLANNED / DEFERRED WORK

AMS02 – RHV RICH RHV ---

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Item	n Name	Part Number		Serial Number		
Part Number or Specification	Serial	Description of Unplanned / Deferred Work	Inspection and Test / Requirements			
Part Number of Specification	Number	Description of Onplanned / Deferred Work	Test Procedures	Requirement Paragraph Numbe		

### ALPHA MAGNETIC SPECTROMETER (AMS) HARDWARE ACCEPTANCE DATA PACKAGE PREPLANNED / ASSIGNED WORK

AMS02 – RHV RICH RHV ---

Item Name		Part Number	Serial Number		
Authorizing Work Document Identification	Description of	Inspection Rec	and Test / Retest puirements		
Document Identification	Description of Preplanned / Assigned Work	Test Procedures	Requirement Paragraph Number		
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### ALPHA MAGNETIC SPECTROMETER (AMS) HARDWARE ACCEPTANCE DATA PACKAGE

							As Designed As Built			Reconciliation		on			
Pa		ndenti evel	ure	Part Number	Qty Requi red	Nomenclature	Current Dwg Rev	Unincorp orated DCN's	Part Rev (as applic able)	Rev (as Serial Number / Lot-Date Code applic		Compon ent Ref Des	WAD	Notes	Stat us O/C
1				24-AMS-140.00.03	6	RICH High Voltage	24-AMS-140.00.03		Α	ECO-00082		Α			
2	2			24-AMS-140.05.00	6	HV Left wall	24-AMS-140.05.00			ECO-00084					
2				24-AMS-140.05.00	6	HV Right wall	24-AMS-140.05.00			ECO-00084					
2	2			24-AMS-140.07.01	6	HV Top Cover	24-AMS-140.07.01		Α	ECO-00084		Α			
2	2			24-AMS-140.09.00	3	HV Right Bracket	24-AMS-140.09.00			ECO-00084					
2	2			24-AMS-140.10.00	3	HV-Bracket	24-AMS-140.10.00			ECO-00084					
	3	3		24-AMS-140.02.00	6	HV-Frame	24-AMS-140.02.00			ECO-00075					
	3	3		24-AMS-140.06.00	6	HV Connector Panel	24-AMS-140.06.00			ECO-00084					
	3	3		24-AMS-140.03.00	12	HV vertical stand-off	24-AMS-140.03.00			24-AMS-140.03.00					
	3	3		24-AMS-140.08.00	54	HV Spacer	24-AMS-140.08.00			24-AMS-140.08.00					
	3	3		HVB_001	30	Regulator	HVB_001		3	HVB_001					
	3	3		HVB_002	12	Elevator	HVB 002		3	HVB_002					
	t														
	1								1						
		1 1		l				ı				1	ı		

#### **ALPHA MAGNETIC SPECTROMETER (AMS)** HARDWARE ACCEPTANCE DATA PACKAGE **OPERATING TIME / CYCLE**

AMS02 – RHV RICH						RHV					
I		Part Number				Serial Number					
Time / Cycle	Cominal			Operati	ing Time			Cy	Cycle		
Part Name	Part Number	Serial Number				Remaining			Allowable	Remaining	
Fait Name		Number	Hrs.	Min.	Sec.	Hrs.	Min.	Sec.			

	Hrs.	Min.	Sec.	Hrs.	Min.	Sec.		
I	i	i .	1		1	1	I	i

### ALPHA MAGNETIC SPECTROMETER (AMS) HARDWARE ACCEPTANCE DATA PACKAGE AGE-SENSITIVE / TIME-ACTION ITEMS

AMS02 - RHV RICH		RHV					
Item Name					Part Number	S	Serial Number
Part Name	Part Serial Bin Number Number Da		Birth Date	Action Due Date	Required Action	Last Operational and / or Servicing Date	Operational and / or Servicing Due Date

### ALPHA MAGNETIC SPECTROMETER (AMS) HARDWARE ACCEPTANCE DATA PACKAGE NONSTANDARD CALIBRATION RECORD

	AMS02 - I	RHV RICH		RI	HV		
	Item I	Name		Part N	lumber	Se	rial Number
PART NAME				PART NUMI	BER		
SERIAL NUMBE	R			MEAS. NUM	IBER		
RANGE (ENG	UNITS)	EXCITAT	TON VOLTS +/-	UNITS ST (ENG U			JT VOLTS OR SISTANCE
	RUN NU	JMBER 1			RUN N	IUMBER 2	2
TEMP. ENV		DATE		TEMP. EN	IV	DATE	
STIMULUS		O. UNITS JLL SCALE	OUTPUT VOLTS OR RESISTANCE	STIMULUS		D. UNITS LL SCALE	OUTPUT VOLTS OR RESISTANCE

## ALPHA MAGNETIC SPECTROMETER (AMS) HARDWARE ACCEPTANCE DATA PACKAGE REPAIR LIMITATIONS

AMS02 - RHV RIC	Н		RHV		
Item Name			Part Num		Serial Number
TYPE OF REPAIR	REPAIR	LIMITATION REQIURE	MENT	REQUIRE	MENT SOURCE
				IDENTIFIC/	ATION METHOD
PART NAME	PART NUMBER	SERIAL/LOT NUMBER	PHYSIC	CAL LOCATION	TIMES REPAIRED
			†		<del>-  </del>

# ALPHA MAGNETIC SPECTROMETER (AMS) HARDWARE ACCEPTANCE DATA PACKAGE PRESSURE VESSEL DATA

AMS02 – RHV RICH					RHV						
	Item Name				Part Number			Serial Number			
PART NAME				PART NUME	3ER			SERI/	AL NUM	BER	
LIMITED LIFE		THRESH	OLD PRE	SSURE (PSID)				D/	ATE INS	STALLED	
PRESSURE LIMITATINS:	TP: OP:	PP:		CYCLE LIMITA	ATIONS:	MOPO	<b>D</b> :		PPC:		
TEST NAME		TYPE OF	TYPE OF DATE	PEAK	MINIMUM	TIME			CUM	TOTALS	QC/OPER
FACILITY	(PROOF PRESS, LEAK TEST)	PRESSURANT	DATE	PRESSURE	PRESSURE	HRS	MIN	CYC	TIME	CYCLES	STAMP
		1									
								<u> </u>			
		1									
		'									
	THIS PRESSURE VESSEL IS CERTIFIED TO MEET ALL CONTRACT REQUIREMENTS, UNLESS OTHERWISE NOTED, AND IS ACCEPTABLE FOR FLIGHT OR GSE USE.						S				
	C(	ONTRACTOR/SUP	PLIER S	SIGNAT	TURE						

### ALPHA MAGNETIC SPECTROMETER (AMS) HARDWARE ACCEPTANCE DATA PACKAGE NONFLIGHT HARDWARE / TEMPORARY INSTALLATIONS

AMS02 – RHV RICH RHV ---

	Item Name	Part N	Serial Number		
STREAMER/TAG NUMBER	PART NAME	PART NUMBER	SERIAL NUMBER	PHYSICAL LOCATION	REMOVAL EVENT

# ALPHA MAGNETIC SPECTROMETER (AMS) HARDWARE ACCEPTANCE DATA PACKAGE CERTIFICATIONS

AMS02 – RHV RICH		RHV	
ITEM NAME	CI NO.	PART NUMBER	SERIAL NUMBER
Attached documented evidence attesting to the fload, proof pressure, cleanliness, flight, etc.). So (VCNs)], shall be available for review. Certification procedures, certification analysis, vendor data, juinspections procedures for all design requirements.	upporting documer ons and reference ustifications for val	ntation [e.g. Verification Comes to supporting records including records including records from vendor specifications.	pletion Notices de qualification test

#### CERTIFICATIONS INCLUDED IN THIS DATA PACKAGE

Υ	N	N/A	ITEM ID	INDEX
			А	Qualification Test Procedures
			В	Certification Analysis
			С	Vendor-supplied Data Sheets
			D	Justifications for variances from vendor specifications and any records of approval
			E	Certification inspection procedures for all design requirements and acceptance requirements
			F	Log of all hardware with corresponding references to certification records for all devices with stored energy (i.e. pressure vessels, capacitors, batteries)
			G	Log of hazardous chemical and materials with corresponding references to certification records

# ALPHA MAGNETIC SPECTROMETER (AMS) HARDWARE ACCEPTANCE DATA PACKAGE MSDS DATA

Α	MS02 - RHV RICH		RHV	
	Item Name	Part Number	Serial Number	
CHEMICAL/COMMON NAME	PHYSICAL PROPERTIES	HAZARDS OR OTHER RISKS	SAFE HANDLING	ENGINEERING PROBLEMS